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SECTION 1. IDENTIFICATION		
Product name	: Pennzoil Automatic Transmission Flui	d
Product code	: 001B1126	
Manufacturer or supplier's	details	
Manufacturer/Supplier	: Shell Oil Products US USA	
SDS Request	: (+1) 877-276-7285	
Customer Service	: ``	
Emergency telephone num	ber	
Spill Information	: 877-242-7400	
Health Information	:	
	hemical and restrictions on use	
Recommended use	: Transmission oil.	

## **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

## **GHS Label element**

Hazard pictograms	: No Hazard Symbol required
Signal word	: No signal word
Hazard statements	<ul> <li>PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.</li> </ul>
Precautionary statements	<ul> <li>Prevention: No precautionary phrases.</li> <li>Response: No precautionary phrases.</li> <li>Storage: No precautionary phrases.</li> <li>Disposal: No precautionary phrases.</li> </ul>

### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used oil may contain harmful impurities. Not classified as flammable but will burn.

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The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	:	Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346.
		* contains one or more of the following CAS-numbers: 64742- 53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69- 9.

#### Hazardous components

Chemical Name	Synonyms	CAS-No.	Concentration (%)
Alkyl methacrylates copo- lymer		Not Assigned	1 - 3
Interchangeable low vis- cosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

### **SECTION 4. FIRST-AID MEASURES**

General advice	:	Not expected to be a health hazard when used under normal conditions.
If inhaled	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	:	Remove contaminated clothing. Flush exposed area with wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
In case of eye contact	:	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Protection of first-aiders	:	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
Immediate medical attention,	:	Treat symptomatically.
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 special treatment
 SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dio- xide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing me- thods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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Additional advice	:	For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.
Methods and materials for containment and cleaning up		Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
		Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Personal precautions, protective equipment and emer- gency procedures	> :	Avoid contact with skin and eyes.

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SECTION 7. HANDLING AND STORAGE			
Technical measures	:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.	
Precautions for safe handling	:	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning mate- rials in order to prevent fires.	
Avoidance of contact	:	Strong oxidising agents.	
Product Transfer	:	This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.	
Storage			
Other data	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature.	
Packaging material	:	Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.	
Container Advice	:	Polyethylene containers should not be exposed to high tem- peratures because of possible risk of distortion.	

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhal- able frac- tion))	5 mg/m3	US. ACGIH Threshold Limit Values
		(Mist)	5 mg/m3	OSHA_TRA NS

**Biological occupational exposure limits** 

No biological limit allocated.

**Monitoring Methods** 

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workplace may be required trols. For some substances Validated exposure measu ples analysed by an accred Examples of sources of red tact the supplier. Further na National Institute of Occupa http://www.cdc.gov/niosh/ Occupational Safety and H http://www.osha.gov/ Health and Safety Executiv http://www.hse.gov.uk/ Institut für Arbeitsschutz De http://www.dguv.de/inhalt/in	commended exposure measurement m ational methods may be available. ational Safety and Health (NIOSH), US ealth Administration (OSHA), USA: Sa re (HSE), UK: Methods for the Determi eutschen Gesetzlichen Unfallversicher	nd adequacy of exposure con- propriate. a competent person and sam- nethods are given below or con SA: Manual of Analytical Metho ampling and Analytical Methods ination of Hazardous Substanc ung (IFA), Germany
Engineering measures	: The level of protection and typ vary depending upon potential controls based on a risk asses Appropriate measures include: Adequate ventilation to control	bes of controls necessary will exposure conditions. Select sment of local circumstances.
	Where material is heated, spra greater potential for airborne c	
	General Information: Define procedures for safe har controls. Educate and train workers in th ures relevant to normal activitie Ensure appropriate selection, t equipment used to control exp equipment, local exhaust venti Drain down system prior to equ ance. Retain drain downs in sealed s subsequent recycle. Always observe good personal washing hands after handling t drinking, and/or smoking. Rou protective equipment to remov taminated clothing and footwea Practice good housekeeping.	he hazards and control meas- es associated with this product testing and maintenance of osure, e.g. personal protective lation. uipment break-in or mainten- storage pending disposal or I hygiene measures, such as the material and before eating, utinely wash work clothing and e contaminants. Discard con-
Personal protective equip		
Respiratory protection	<ul> <li>No respiratory protection is orce conditions of use.</li> <li>In accordance with good indus tions should be taken to avoid If engineering controls do not retions to a level which is adequate select respiratory protection encific conditions of use and meet Check with respiratory protection</li> </ul>	trial hygiene practices, precau- breathing of material. naintain airborne concentra- ate to protect worker health, quipment suitable for the spe- eting relevant legislation.

Check with respiratory protective equipment suppliers.

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	Where air-filtering respirators an priate combination of mask and Select a filter suitable for the co and vapours [Type A/Type P b	filter.
Hand protection		
Remarks	: Where hand contact with the pr gloves approved to relevant sta US: F739) made from the follow suitable chemical protection. PV gloves Suitability and durability usage, e.g. frequency and dura sistance of glove material, dexte glove suppliers. Contaminated of Personal hygiene is a key elem Gloves must only be worn on cl gloves, hands should be washe cation of a non-perfumed moist For continuous contact we reco through time of more than 240 of 480 minutes where suitable gloves of may not be available and in this time maybe acceptable so long and replacement regimes are for a good predictor of glove resistat dependent on the exact compose Glove thickness should be typic depending on the glove make a	indards (e.g. Europe: EN374 ving materials may provide VC, neoprene or nitrile rubbe of a glove is dependent on tion of contact, chemical re- erity. Always seek advice fro gloves should be replaced. ent of effective hand care. lean hands. After using ed and dried thoroughly. App urizer is recommended. ommend gloves with break- minutes with preference for ves can be identified. For e recommend the same, but offering this level of protection is case a lower breakthrough as appropriate maintenance blowed. Glove thickness is r ance to a chemical as it is sition of the glove material. cally greater than 0.35 mm
Eye protection	: If material is handled such that protective eyewear is recomme	
Skin and body protection	: Skin protection is not ordinarily work clothes. It is good practice to wear chem	
Protective measures	: Personal protective equipment mended national standards. Ch	
Environmental exposure of	controls	
General advice	: Take appropriate measures to f vant environmental protection le of the environment by following necessary, prevent undissolved charged to waste water. Waste municipal or industrial waste wa discharge to surface water. Local guidelines on emission lin must be observed for the dischar vapour.	egislation. Avoid contaminati advice given in Chapter 6. I material from being dis- water should be treated in a ater treatment plant before nits for volatile substances

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	: Liquid at room temperature.	
Colour	: red	
Odour	: Slight hydrocarbon	
Odour Threshold	: Data not available	
рН	: Not applicable	
pour point	: -48 °C / -54 °FMethod: ISO 3016	
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value	(S)
Flash point	: 180 °C / 356 °F Method: ISO 2592	
Evaporation rate	: Data not available	
Flammability (solid, gas)	: Data not available	
Upper explosion limit	: Typical 10 %(V)	
Lower explosion limit	: Typical 1 %(V)	
Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.864 (15 °C / 59 °F)	
Density	: 864 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185	
Solubility(ies) Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: Pow: > 6(based on information or	n similar products)
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 33.8 mm2/s (40.0 °C / 104.0 °F) Method: ISO 3104	

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	7.3 mm2/s (100 °C / 212 °F)	
	Method: ISO 3104	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to	be a static accumulator
Conductivity		
Decomposition temperature	: Data not available	

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	: Stable.
Possibility of hazardous reac- tions	: Reacts with strong oxidising agents.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: Strong oxidising agents.
Hazardous decomposition products	: Hazardous decomposition products are not expected to form during normal storage.

### SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	:	Information given is based on data on the components and
		the toxicology of similar products.Unless indicated otherwise,
		the data presented is representative of the product as a
		whole, rather than for individual component(s).

## Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

## Acute toxicity

## Product:

Acute oral toxicity	:	LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low toxicity:
Acute inhalation toxicity	:	Remarks: Not considered to be an inhalation hazard under normal conditions of use.
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low toxicity:

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### Skin corrosion/irritation

#### Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

#### Serious eye damage/eye irritation

#### Product:

Remarks: Expected to be slightly irritating.

#### Respiratory or skin sensitisation

#### Product:

Remarks: Not expected to be a skin sensitiser.

### Germ cell mutagenicity

#### Product:

: Remarks: Not considered a mutagenic hazard.

#### Carcinogenicity

### Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

### Product:

Remarks: Not expected to impair fertility., Not expected to be

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a developmental toxicant.

### STOT - single exposure

## Product:

Remarks: Not expected to be a hazard.

## STOT - repeated exposure

### Product:

Remarks: Not expected to be a hazard.

### Aspiration toxicity

## Product:

Not considered an aspiration hazard.

### **Further information**

## Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

## **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment	: Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxic- ity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae (Acute toxic- ity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l

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Toxicity to fish (Chronic toxic- ity)	:	Remarks: Data not available	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available	
Toxicity to bacteria (Acute toxicity)	:	Remarks: Data not available	
Persistence and degradability	у		
Product:			
Biodegradability	:	Remarks: Expected to be not read Major constituents are expected to ble, but contains components that ment.	be inherently biodegrad
Bioaccumulative potential			
Product:			
Bioaccumulation	:	Remarks: Contains components w cumulate.	ith the potential to bioac-
Mobility in soil			
Product:			
Mobility	:	Remarks: Liquid under most enviro If it enters soil, it will adsorb to soil mobile.	
		Remarks: Floats on water.	
Other adverse effects			
no data available			
Product:			
Additional ecological informa- tion	:	Product is a mixture of non-volatile expected to be released to air in a Not expected to have ozone deple cal ozone creation potential or glob	ny significant quantities. tion potential, photochen
		Poorly soluble mixture. May cause physical fouling of aqua	atic organisms.
		Mineral oil is not expected to cause aquatic organisms at concentration	

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Waste product should not be allowed to contaminate soil or

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	ground water, or be disposed of Waste, spills or used product is o	
	Disposal should be in accordanc national, and local laws and regu Local regulations may be more s tional requirements and must be	llations. tringent than regional or na-
Contaminated packaging	: Dispose in accordance with prev to a recognized collector or contr the collector or contractor should Disposal should be in accordanc national, and local laws and regu	actor. The competence of be established beforehand. e with applicable regional,

### **SECTION 14. TRANSPORT INFORMATION**

#### **National Regulations**

### US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

### International Regulation

### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category	: Not applicable
Ship type	: Not applicable
Product name	: Not applicable
Special precautions	: Not applicable

## Special precautions for user

Remarks	: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.
Additional Information	: MARPOL Annex 1 rules apply for bulk shipments by sea. MARPOL Annex 1 rules apply for bulk shipments by sea.

## **SECTION 15. REGULATORY INFORMATION**

OSHA Hazards : No OSHA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

### CERCLA Reportable Quantity

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This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Water Act**

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
• •	ct are reported in the following inventories: All components listed or polymer exempt.
TSCA	All components listed.
DSL	All components listed.

### **SECTION 16. OTHER INFORMATION**

#### **Further information**

NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Abbreviations and Acronyms :	The standard abbreviations and acronyms used in this docu- ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
	ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling

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Version 2.3	COC = Cleveland Open-Cup DIN = Deutsches Institut fur Nor DMEL = Derived Minimal Effect DNEL = Derived No Effect Leve DSL = Canada Domestic Substa EC = European Commission EC50 = Effective Concentration ECETOC = European Center or gy Of Chemicals ECHA = European Chemicals A EINECS = The European Invent Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and Inventory EWC = European Waste Code GHS = Globally Harmonised Sy Labelling of Chemicals IARC = International Agency for IATA = International Air Transpo IC50 = Inhibitory Concentration IL50 = Inhibitory Level fifty IMDG = International Maritime E INV = Chinese Chemicals Inven IP346 = Institute of Petroleum determination of polycyclic arom KECI = Korea Existing Chemica LC50 = Lethal Concentration fift LD50 = Lethal Coading/Effec LL/EL/IL = Lethal Loading/Effec	COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicolo- gy Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing Commercial Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty	
	LL/EL/IL = Lethal Loading/Effect LL50 = Lethal Loading fifty MARPOL = International Conve Pollution From Ships NOEC/NOEL = No Observed Effect Level	tive Loading/Inhibitory loading ntion for the Prevention of ffect Concentration / No Ob-	
	OE_HPV = Occupational Expos PBT = Persistent, Bioaccumulat PICCS = Philippine Inventory of Substances PNEC = Predicted No Effect Co	ive and Toxic Chemicals and Chemical	
	REACH = Registration Evaluation Chemicals RID = Regulations Relating to Ir gerous Goods by Rail SKIN_DES = Skin Designation		
	STEL = Short term exposure lim TRA = Targeted Risk Assessme TSCA = US Toxic Substances C TWA = Time-Weighted Average vPvB = very Persistent and very	ent Control Act	
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.